# **CHANGES MADE**

USSN 09/766,253 Docket 015389-002921US Geron No. 018/180c

#### Amended Title:

#### **NOVEL TELOMERASE**

## METHOD FOR IDENTIFYING NUCLEOTIDE SEQUENCES ENCODING TELOMERASE PROTEIN

# Amendments to Specification:

## Page 14 lines 22-23:

Figure 1 (A) and (B) is a schematic diagram of the affinity purification of telomerase showing the binding step (Panel A) and the displacement elution steps step (Panel B).

## Page 15 lines 3-4:

Figure 7 (A) and (B) shows show the putative alignments of telomerase RNA template with SEQ. ID NOs:43 and 44 in Panel A, and SEQ. ID NOs:45 and 46 in Panel B.

## Page17 line 2:

Figure 33 (A) is a schematic an overall summary of the tez1\* sequencing experiments. Figure 33 (B) is a "close-up" schematic of the same region of DNA.

#### Page 17 lines 10-11:

Figure 38 (A) and (B) shows the libraries (Panel A), the region used (Panel B), and the results of screening libraries for S. pombe telomerase sequence (Panels C and D).

#### Page 17 line 17:

Figure 42 (A) and (B) shows the alignment of three telomerase sequences. In Panel A, the shaded areas indicate residues shared between two sequences. In Panel B, the shaded areas indicate residues shared amongst all three sequences.

## Amendments to Claims:

- 8. A method for detecting the presence of polynucleotide sequences encoding at least a portion of telomerase in a biological sample, comprising the steps of:
  - a) providing :i) a biological sample suspected of containing
    - a nucleic acid-corresponding to the polynuclectide coquence of SEQ. ID NO:100;
    - ii) the nucleotide sequence of SEQ. ID NO:100, or a fragment thereof;
  - b) combining-said-biological sample with-said nucleotide under conditions such that-a hybridization complex is formed between said nucleic acid and said nucleotide; and
    - c) detecting said hybridization complex
      - a polynucleotide encoding at least a portion of telomerase;
    - b) determining a nucleotide sequence contained in the polynucleotide;
  - c) comparing the sequence determined in step b) with telemerase motifs 0, 1, 2, and 3; and then
  - d) deciding that the sample contains a polynucleotide sequence encoding at least a portion of telemerase if the sequence determined in step b) contains motifs 0, 1, 2, and 3.

#### [claims 9-12 are canceled]

- 21. The method of claim 8, wherein the telomerase is a telomerase of a single-celled eukaryotic cell.
- 22. The method of claim 8, wherein the telomerase is a mammalian telomerase.
- 23. The method of claim 8, wherein the telomerase is a human telomerase.
- 24. The method of claim 8, wherein the telomerase contains SEQ. ID NO:100.